

IN THE CLAIMS

1 (Previously Presented). A system, comprising:

a decoder to decode encoded video information having a first format into intermediate video information and to extract motion vectors from the encoded video information;

a digital-to-analog converter to convert said intermediate video information to analog data;

an analog-to-digital converter to convert said analog data to digital data;

a compression block to encode the digital data into output video information having a second format using the motion vectors extracted from the encoded video information, said compression block to compensate for errors, introduced by the digital-to-analog and analog-to-digital converters, by performing a localized motion search; and

a device to store the output video information from the compression block.

2 (Original). The system of claim 1, wherein the first format and the second format have a common format.

3 (Original). The system of claim 2, wherein the common format includes MPEG-1, MPEG-2, MPEG-4, H.264, Windows Media Video version 9 (WMV9) or Advanced Video System (AVS).

4 (Original). The system of claim 1, wherein the first format includes MPEG-2, and wherein the second format includes H.264.

5 (Original). The system of claim 1, wherein the decoder is arranged to extract quantization data, picture data, or error data from the encoded video information.

Claim 6 (Canceled).

7 (Original). The system of claim 1, wherein the intermediate video information includes digital pixel information.

8 (Original). The system of claim 1, further including:
an output port to output the intermediate video information.

Claims 9-23 (Canceled).

24 (Previously Presented). A method, comprising:
obtaining at least motion vectors from an encoded video stream;
decoding the encoded video stream to generate a decoded digital video stream;
converting the decoded digital video stream to an analog video stream;
converting the analog video stream to a second digital video stream;
compensating for errors introduced by the analog-to-digital and digital-to-analog conversions by performing a localized motion search of said second digital video stream; and
encoding the second digital video stream to generate an output video stream using the motion vectors obtained from the encoded video stream.

25 (Original). The method of claim 24, wherein the obtaining further includes obtaining quantization data and picture data from the encoded video stream.

26 (Original). The method of claim 25, further comprising:
controlling a rate of the encoding using the quantization data and the picture data.

27 (Original). The method of claim 24, further comprising:
storing the output video stream.